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GENERAL INFORMATION 1 (1)INFORMATION FOR SEQ. ID NO.1: 2 (2)SEQUENCE CHARACTERISTICS: 3 (i)LENGTH: 5001 BASE - #PAIRS 4 (A)5 TYPE: NUCLEIC ACID (B) STRANDEDNESS: SINGLE 6 (C) TOPOLOGY: LINEAR 7 (D) (ii) MOLECULE TYPE: GENOMIC DNA 8 (xi) SEQUENCE DESCRIPTION: SEQ. ID NO.1 9 10 11

GTTGCTGTTGCTGTTCTAGAACAATCCATACACACGATTAGATTGAGCTCACCTTCAGCT CACGGAAAATTCTTCAGGCCTCAACCCTTCAGCTCCACCCTGCCTTTCTGGAAAAATGCA CTCGTGGCTCTACAGGGTGAGCAACCAGGGGCGCAACTGCAGGGCATGCTCATACAGAAC ATGCTGCCGCAGCTGATCATCGCTCAGCAGTGCAGTCAAGCTGCGCACTGGCAGCTTGCA TTGTAGCTGGTGTACAACATTCCAGAAGCCGACTGGTATTCGTTGCAATTGTCACAATTG TGACGCCCATGCAAGGCCCACGAGCAATATCGACTGCAGAACCCTGTGCTGGGATCTACG GGAATGATTGGATTGGACGATGTCAGGGCGTTCGACAGCACCGTACCAAAGCTTGCCAAA CTTTAGCAGCGGCTGCTAGCAACCACGAGATAAGCCATGGCCACAACCTTGCAACATCGC CAGGCAACACCCCCCAGGTGTTCAACTTGAAGGTGTGACACCACTGGTGTGCTGGCAG CTGGCCATTCGGTTTAAGCCAAGCAGTACAGCGCTGTCAGCTTCATCCCCGCCTGGTTAC TGTGATGTATGTGCTTCTGATCAAGCGGTCCTCCATGCCGTCCGAACAGAACTGCGCTGT AAGCTTACGCAGCCCCAACCGGCTCCGAGCAGCATGCCCTTAAGTGGCGGGAAAACTGCC AGGGACGGTGTAAGGGCGCCATTCAGCGCTCGATACTGTAAGATTGTTTTAGATGAAACA GAAATACACCTCCGGAGCTGCGAGTAGCGAGGTGATTTTGCATAAGGGATCCACACTGTT GTGGGCGCACGTCCAAGAATGTTTACCCGTTTCGATTGACAGCAAAACATCATGATCAT CAAAGGAGTGCATCGACAGTCAACGATCACCAGGTGATTACGTTTGTCACTGACAAGCGC CCTCTACGTGCGCCTTGGGCCTACATATGCCCTGCTGTGGGAGTACCCGTGCACAACAGA GCGTTAGAGATACTTCATAGCTGCAACTAGACTACCTTTACCCTAACGAAATCACCCTAG ACCGACAGTGTCGGAGTAGCTGCGACCCAAACGTGATGGCGAGCGGATTGCTTCTCAAGC AGTGAACAGGCGGGCTGTGGTGGCAGCAGGTGCGCTTCTTCTGAAGGGCAGCTAGGGCTG TTTCGGGCAGTGCATGCCGGCCTATTTTGGGTTGCTCGGAGCAATAATATGTACTATATT GCTCTCGTGGAGCTGTTGCGCCACGTGCTTGCCTTGGCGCCTGTTGACCCCGGACCCT $\verb|CCACGTTGCTTCTTGCCGCTGCAGAGCGCAGGCGCCTTGTTGTGCGGGCAGCTGGCCCAA| \\$ CAGCAGAATGTGATTGCCCACCAGCTCCCGCGCCCAAGGCCCCGCACTGGCAGCACGC TAGATGAGCTAGGTGAGCTGCGTGACATTGGAAGTCTGGTGTCCGCAACTGCTCTCTGTG

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CATGCTGACATCCGGAATCAAGTGCCAAGAAGCAGGGCTCGTGTGGGTCATTTGTGGGCA GGTTTGCAGCAGCTTGCCGTGTTCAAGCAGCAGCATGTGGGCTGACACATACTGCTGCCG TGCTTCTGCTGTCCTGCAGCCAAGCCTAAGGAGCAGCGCAAGGTGATGATCGCCCAGATC GCACCAGCAGTGCGCGTGGCTATTGCAGAGACCATGGGACTCAACCCTGGGGATGTGACA GTTGGCCAGATGGTGACCGGCCTGCGCATGCTGGGCTTTGATTATGTGTTTGGTGAGTTA CACAGTGTTTAGTGCTGCAGCAGTCCAGAGCAGCTTGTGCTAGTTGATGTTGATCCTTTG GGCCTGGGATATCCAGCTGGACGTCTTACACTGTTTTTTTAGCGTCCGGAGTGGGCTAGT TAACCAGCTGCTGCCAGCGTGTGCATGTGCTTGGTGCTGTTTTGGTGCTTGGCTGAG ACTCATCTACTGCTGCTGCTGCATCTGCTGCTTGCAGACACGCTGTTTGGTGCTGAC CTCACCATCATGGAGGAGGGCACAGAGCTACGGCACAGGCTTCAGGTCAGTGGTGATGGT GTACTGCTGTGTTCATTATGCCATGAGGGACTTTGGTGTTGCCATCAACAGCTCACACTT GTAGTTACTGGCGGTAGCTGCAGCGACAGGTGGATGCATATCCTGCAGCACATATCCTGC AGCAGGCAGCAGCATTCATGCATGCATCCCTTTGCTCCCCTGTCTCCTTGTGCTGACAGT GCTGCACACTAGCGCCAGCCACCAGGGATGTCGATAACAATCAGTCTGATGTCATCCA CGGTGTTTTAAAACACATCTCTTGCTGCTTGCTGCTTGCAGGACCACCTGGAGCACCACC TGGAGAAGTCCAACCCCGAGCTCATCCCCTACCTGTCTTCCTGCAAGTCGCCCCAGATGA TGCTGGGCGCAGTCATCAAGAACTACTTCGCTGCCGAGGCCGGCGCCAAGCCTGAGGACA TCTGCAACGTGAGCGTGATGCCCTGCGTGCGCAAGCAGGGCGAGGCTGACCGCGAGTGGT TCAACACCACAGGGGCTGGCGCGCGAACGTGGACCACGTCATGACAACTGCAGAGCTGG GCAAGATCTTTGTGGAGCGCGGAATCAAGCTGAACGACCTGCAGGAGTCGCCCTTTGACA ACCCCGTCGGCGAGGGCAGCGGCGGCGCGTGCTGTTCGGCACCACTGGAGGCGTGATGG 24 AGGCGGCGCTGCGCACCGTGTACGAAGTGGTGAGTGTCAGTGTGGCGGCAGCTGTGGGTT 25 GTATCGCAGCAGCAGTTTGCGCATTTGGCAGTAGTGCAGCATGTGCTGGCATGCGCAGAG 26 TTGCGCCCACCTGTGTTGGATGTGAGCTGGGTTTGCATAGAGGCGCCATCTGCAGAAGCG 27 TGCACTTCTGCATACTGCTGCTGATCTACTGCCTTTCACCATACCCGCCACC 28 CGTAATAATCTCTCCTGCTGCACTAGCCCTAGACAGTGCCAGACGTTGACGCTTTCTGCT 29 GCCGTGTTGTGCATCTCCACGCACCTCTGCTGCACCGCAGGTCACACAGAAGCCTTTGGA 30 CCGCATCGTCTTTGAGGACGTGCGCGGCCTGGAGGGCATCAAGGAGTCCACGCTGCACCT 31 CACCCCAGGCCCCACCAGCCCCTTCAAGGCCTTTGCAGGCGCAGACGGCACCGGCATCAC 32 CCTCAACATCGCGGTCGCCAACGGCCTCGGCAATGCCAAGAAGCTCATCAAGCAGCTGGC 33 TGCAGGCGAGAGCAAGTACGACTTCATCGAGGTCATGGCCTGCCCCGGCGGCTGCATCGG 34 CGGCGGCGGCCAGCCGCGCGGACAAGCAGATCCTGCAGAAGCGCCAGGCGGCCAT 35 GTACGACCTGGACGAGCGCGCGGTGATCCGGCGCAGCCACGAGAACCCGCTGATTGGCGC 36 GCTGTATGAGAAGTTCCTGGGCGAGCCCAACGGCCACAAGGCGCACGAGCTGCTGCACAC 37 GCACTACGTGGCCGGCGGCGTGCCCGATGAGAAGTGAAGCGGTGGCTGGTGATGCTGGCT 38

1	GCGGCGAAGAAACGGTGGGCATGGTGGTGGGTGGGTTGCTGCATGGTGGTCGCTCGTG
2	CAGCATGGTGGGTTTGCGGTTGTGATGTTGGGCATGCTGCACGGAGGTGTTTGCATGGTT
3	ATGGATATGGTTCAGGTGCTGTGCTGCGTCGCATGCCATAAGCACCTTGTGACCCTGTGC
4	GATGCATAAAAATAGATATTGCCATTTGGTTCCAGGCTGGTGGCAGTGGCTGGTTAA
5	${\tt CAGGGGAGTGTGTGTTTTGTGTGTCTTCATTGTCGGTGTGTTCTTGCTGCATGTATTGT}$
6	${\tt AGTGTAATGGGTTATGCACGCCTGCATGCGCACGCGCTCCTCGTGCTGCGACAGTGCACACACA$
7	${\tt ACGCACAGCGTGATACAGCTGCAGGACGTTTGCGGAAAAACACTTGTTACTGGTGACGGC}$
8	TGAAGCAGCGATGATGGAGAGAATGGATTCGCTGCTATCTCACAGGGCGTGGCTGCCA
9	TCGCCATGGCATGTCCCTGTTGCACGCAATTGCCTGCGTAATTTTGATAGTGGCAGCACT
10	GAGGCAGCTGCAAGGCCTTCTGCCAGCGGCTGTTTGTGTCCTATCTGTGTTTACAGGCAG
11	$\tt CTGCATTTGAAGGCAAGGGGGTTGGCCATCACTCACTTTGATCACTCAC$
12	$\tt CTTCCATCCATGTATTGGTCAACGCACTGAAGTTCTTTTTTTT$
13	TGTGTGCACACTACTTGCTATGGAGATGACAGCAGCATCAATCTCAAGCATGATGAAAGC
14	GTATGTTGTATCAGTGCCCCATTTTGCAGACTCTTAAGAGCTTTACCTTCTCAGGGGTTG
15	CAGCAGGTGGTCGCCAGCTGAGGGAGTGTGTGGCTGTTGTCTTGCCACCATGTGAG
16	TATTGAAACCACCATCCTGAGCTAAGTGTTCAGGCATCTTACCCTCATACCCCGCTACCC
17	TGCTACTGGGAGTTTCGTTTCATTGTATTGGCAGCCGTTTACTAATTAGTAATGGCGCTT
18	GAGCGAGGCATGTCTTGATATGTATGCCTTAGGAGAGTGTGAGCTCAACTCAATTCTCAT
19	AAGTGTAAGCCACACAACTGG

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INFORMATION FOR SEQ. ID NO.2: 2 (2) SEQUENCE CHARACTERISTICS: 3 (i) LENGTH: 5208 BASE - #PAIRS 4 (A) TYPE: NUCLEIC ACID 5 (B) STRANDEDNESS: SINGLE 6 (C) TOPOLOGY: LINEAR 7 (D) MOLECULE TYPE: GENOMIC DNA 8 (ii) SEQUENCE DESCRIPTION: SEQ. ID NO.2 9 (xi) 10 11 12 TCCCGGAAGCACCAGCAGCAGGGGGCCAGGGGGTCGGGTGATGATGTGGGCCGCGTGT 13 ATGGAGGTGGCACCCTGTATGTTCATCTGGGCGCTTAATTGCGTTAAGCCATTCGAGCCC 14 ACTTCGGAGGCAAGTTCGATTTGGTGGCGTGAGATCCGCCTCACCCCGGTTACTGCACGT 15 GCAGGAGTGGTGCAGCAGTAGTCGGCAGGGTGTCCCCAGGTATTGTGGCGTTTGTCGC 16 ACGGTATGCCGGTGCAGTGCTCAGGTGCGTAAAGCGGCGCGTCGCGGTGTTGGTCGCAAC 17 18 GCTTTGCTGGCAGCGTAGAACCGCTGTGGCGGACACACGCTCAGCAAGGGCCAAGGGGGG 19 CGTCCAAGCCAAGGTCCAAGCGCGCATCCCCTCACCCCTGCACCAATGTCCAACACCGAC 20 AGTAATCCACGCTCCGCTACGTCGCAAGCAGCAATCATGCGTGTCTAACATGACTGAAC 2.1 22 TATATGCGCACGCATTGTTGCCGACACAACGGACAACTATCCGGCTGCCTACTGTTGT 23 ATAAGGGTCATAGAATCTAGCGTTATCCTTCCACGAGCGTGTGGCAGCCTGCTGGCGTGG 24 ACGAGCTGTCATGCGTTGTTCCGTTATGTGTCGTCAAACGCCTTCGAGCGCTGCCCGGAA 25 CAATGCGTACTAGTATAGGAGCCATGAGGCAAGTGAACAGAAGCGGGCTGACTGGTCAAG 26 GCGCACGATAGGGCTGACGAGCGTGCTGACGGGGTGTACCGCCGAGTGTCCGCTGCATTC 27 CCGCCGGATTGGGAAATCGCGATGGTCGCGCATAGGCAAGCTCGCAAATGCTGTCAGCTT 28 ATCTTACATGAACACACAAACACTCTCGCAGGCACTAGCCTCAAACCCTCGAAACCTTTT 29 30 GCACCACCTATTATTTCTAATATCGTAGACGCGACAAGATGTCGGCGCTCGTGCTGAAGC 31 CCTGCGCGGCCGTGTCTATTCGCGGCAGCTCCTGCAGGGCGCGGCAGGTCGCCCCCGCG 32 CTCCGCTCGCAGCCAGCACCGTGCGTGTAGCCCTTGCAACACTTGAGGCGCCCGCACGCC 33 GCCTAGGGTGAGGGCGACGCAGTGAACGCAGTTTCGATGGGTCACTTTGTCGCTTTTGCG 34 GAAGCCTCCGAAACGTCCCGCGAGGTTCAAACGGCCCCGAATGACCACACCCATATGGCC 35 ACTGGGAATAATAACGCAGCAACGTCGCTTGCGCGGCTGCCGCACCCGCTGCGGAGGCGC 36 37

ACGCATTGTTGTGGTCAAGTCTCTCCACTCAGTCCGACCCCCCACACGGCGTAGGGGTCT

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GAAGTCCACCAACTCCTCACACACCCCAAGGAAGGGACGTAAGCCCCCCTGGCTACGCTT TACCCAGCAGCCACAGCGACAGAGCGCCCCAACATAGGCTCGAGATAGAACGCACCTGAA CTGTGACACTTACAATGGAAAGGAACTGCGGATGGCCTTAAAGTCAAGCATTTTGTGACG AGTCGGCTCGGAATCCCCATCGGCCCCGTCCGTTCGTCTTCATCACCGCCTGAAACGGC GCACGCGCAATAGTGCGCACTTGATGCCTTTCGGTCCAACGCCTCTGTCAGCTAACACTT TCCAGGGCCAGCGCGGACTCGAGAACCCTCTTTCCTGGCAACCTTGGTTTGGCTGGACCT ATGCCCACAGCCAAGCCCAAGGACGACCCCACGCGCAAGCACGTCTGCGTGCAGGTGGCT CCGGCCGTTCGTGTCGCTATTGCCGAGACCCTGGGCCTGGCGCCGGGCGCCACCACCCCC $\verb|CCTGCCTGCCTGCCCGCCCTCACGCCCCAGGTGTTTGACACGCTGTTTGGCGCCGACCTG|\\$ ACCATCATGGAGGAGGGCAGCTGCTGCACCGCCTCACCGAGCACCTGGAGGCCCAC $\tt CCGCACTCCGACGACCCCTGCCCATGTTCACCAGCTGCTCCCCGGCTGGATCGGTAGC$ AGCGCGGCGTGCTTGCTTAGGGCCCCATAACCTGTCTTGGGCCCCCGGCGTCCGCCTCTC CACCTACCTGCAACATGTACGTGCCTACGGTATTGTCGCATGTCTCTTGACGATTTGGGT $\tt CGACCTTACCTTTGCCTTGTGTCCTTTCTCCACCCCCACCCGCCTCTTTCCTCGCCGGCC$ CCCCTCGCGCAGCTATGCTGGAGAAATCTTACCCGGACCTGATCCCCTACGTGAGCAGCT GCATCGCCCCAAAGGACATGGTCATGGTGTCCATCATGCCCTGCACGCGCAAGCAGTCGG AGGCTGACCGCGACTGGTTCTGTGTGGACGCCGACCCCACCCTGCGCCAGCTGGACCACG TCATCACCACCGTGGAGCTGGGCAACATCTTCAAGGAGCGCGGCATCAACCTGGCCGAGC TGCCCGAGGGCGAGTGGGACAATCCAATGGGCGTGGGCTCGGGCGCCGGCGTGCTGTTCG GCACCACCGGCGTGTCATGGAGGCGGCGCTGCGCACGGTGGGTCTGTGAGAGCCGGTTG ATTGGCCCGGCAGAACGCATACACTTGCTGAACCTTTGATGCGGGATAAGCAAGGCTACC GATCCGCGTCTTTTTACACCTGTTTATCACGTCGCTGAGCAAGCTCGTGACACCTGCAGG CCTATGAGCTGTTCACGGGCACGCCGCTGCCGCCTGAGCCTGAGCGAGGTGCGCGGCA TGGACGCATCAAGGAGACCAACATCACCATGGTGCCCGCGCCCGGGTCCAAGTTTGAGG CGCTGGCCTGGGACGGCGCGCGGGCTTCACCAGCGAGGACGGCAGGGGCGGCATCACAC TGCGCGTGGCCGACGGGCTGGGCAACGCCAAGAAGCTGATCACCAAGATGCAGG CCGGCGAGGCCAAGTACGACTTTGTGGAGATCATGGCCTGCCCCGCGGGCTGTGTGGGCG GCGGCGGCCAGCCCGCTCCACCGACAAGGCCATCACGCAGAAGCGGCAGGCGGCGCTGT CTGCGGGGCAGGGTGCGGCGGAAACGGAAATGGGCAAGGCTCGAGGTGGAGGCGGGGT GGGTTGGGGTTACTTGCTACAGGTTGGCGGCCAGGATGTGATGGAAGCAGTGTGGAGGAG GTGTGCGTAGGGTCCCGACGACGATTTCGCACGAGCAAAGAGGGTCGGCACTTCCTGAC

ACAATGTGCGCCTGCACGTGCGCTCCTGTTGCTGCCCCAGGTCCACGCTGCGCCGCAGCC 1 ACGAGAACCCGTCCATCCGCGAGCTGTACGACACGTACCTCGGAGAGCCGCTGGGCCACA 2 AGGTGGGGGGGTTGTATACTACCAGCCCAAATGACGGGGCTGGTCGGGGGCGTTGGAGA 3 GGCGGCCGGGAGGGAGGCGGGCTGGGTGTGGGGCAACAGCAGGTGAAGGGACGGGGGG 4 CGCACTGGGCAGGGCGGTACATGCCTTGTCCTGATAGCTACCCACACGCGACTGTTGCTA 5 CATGGATGCATGACGTGTGCCGTGTGCTTGACCCCTGCAGGCGCACGAGCTGCTGCACAC 6 7 CCACTACGTGGCCGCGGCGTGGAGGAGAAGGAGGAGAAGAAGTGAGGAGCGCCAGAGGC 8 TCTTTGGGCGGAGACAGCTTCAAAGCGAGGGGGCGTATTAGCAGTACCGTAAATATGCAC 9 TGATGGGTGATGCGGGTGTCCTCCTTTATATTGAATGGGGTCAAAATAGGCGGCGGGTCA 10 AATGTTTCCTTTTTGAGTGGTGTCACAGCATGGGGCACGTGTGCCGGAGGCCAGTTGCCCT 11 CCAGTGCACGCGCTCCCGGTGTGTGGCCGCACTGGCCTTGGATAATGCACCGGTGGAGGA 12 TTATGGAAGAGGGGACTCAGAAGGCTCATTATTGGACAATGCCTGGTCTCTTCCACATT 13 GGTGTGAGCGCGCTCCGCATAGGCTGTTCACTGCACGCTGGCATTAGGCGTAGGTACTG 14 GCATGAGGGAGCGCGCTTGCTAACCGAATGGCGTATCCCTCCAGGGCACGTCGGAATGG 15 CGCGTGCCCATCAACGCAAATTCTTGGCCTTCATCGCTTCTGGATATTGAAGCTGCACAA 16 17 TGGGAACAATTCATCTTACTAAAGCGTGTGGGGGTTGAGGATGCGCACGTTGTGCGCTGG 18 TGGGTGGGCGGAACGTGGGTAGCATTTAGGCTAGCTGGCATACGACAACGGGGCCCGTG 19 AGGATTGAGCACTTGACTCGCGAACTTATGAACGTAGCGCTTTATACCCACCGTATGCGA 20 TTGACGTTGGTGTAGGCAACCAGGCGGTAGGAAGGCGGAGAGATGCATTGCAAACGCCTG 21 TAAAAGAACGCCATAGCTACTAGACACTCTGATGTGGACCCTTGGCGCAGCCACGACAGG 22 AGAGGTGTGCATCAGCCGCTTGTAAGCACGCACTTCTGAGAAAAAAA

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INFORMATION FOR SEQ. ID NO.3: 2 (2)SEQUENCE CHARACTERISTICS: 3 (i) LENGTH: 3265 BASE - #PAIRS 4 (A) TYPE: NUCLEIC ACID 5 (B) STRANDEDNESS: SINGLE 6 (C) TOPOLOGY: LINEAR 7 (D) (ii) MOLECULE TYPE: GENOMIC DNA 8 SEQUENCE DESCRIPTION: SEQ. ID NO.3 9 (xi)10 11 GCGGAATTACTAGTGATAAGCAGTGGTAACAACGCAGAGTCGCGGGCAGGGACTCGATCA 12 GTTGTTATGTGTTGCCCCGTGGTTGCAAGTAGGCACGCAGGGCGTGCAAGGCATGTTGCT 13 GTCCGTGCAGCAGGGCCAACATCTGAGTGTGATTGTCCTCCAACACCTCAGGCCAAGCTG 14 CCTCACTGGCAGCAGGCTCTGGATGAGCTCGCCAAGCCCAAGGAGGAGCAGGAGGTTGATG 15 ATCGCGCAAATCGCCTCCGCTGTTCGTGTCGCTATTGCTGAGACCATTGGCTTGGCCCCA 16 GGAGATGTCACCATTGGGCAGCTCGTGACTGGGCTGCGTATGCTTGGCTTTGATTATGTC 17 TTTGGTAAGCAGCAGCATCTTGCATTACACTTGCAGTTGGTCGTCACATGCACCTAATCA 18 GATGTTAGCCCTCTGGAACATTTTTGCCTGTTTGGTGCTTACCTGACCAACTGCTGCCTG 19 GTATGGCCAACTTGTGAAGCTGCGTGTGTTGGCGTTGCTACAGACACCCTGTTTGGTGCT 20 GACCTGACCATTATGGAGGAGGGAACGGAGCTGCTGCATCGCCTGCAGGACCATCTGGAG 21 CAGCACCCCAACAAGGAGGTGAGTAAGCCAGCTGGGTGGTCTACCACCCAGCACCAGCTC 22 GAGACAGCAGCCTTGCATCAACACTCACAACGTCTAGCTCCTCCTTAAATGAGCGGACCA 23 AACCTGTGAGTGGCACCATGTCAGCTGCCCCTCGCACCAAAGCACAGCATGGCCTGTCTG 24 TCGTCGATTGCCACATGAGTGTTTGCGTTGTTATGCAAGTGCCTGAACAAACTGCATATT 25 CCTGTGTCTCTCTGCGTTCGCACAGGAGCCACTGCCCATGTTCACCAGTTGCTGCCCAGG 26 CTGGGTTGCCATGGTTGAAAAGAGCAATCCTGAGCTCATCCCCTACCTGTCATCTTGCAA 27 GTCGCCTCAGATGATGCTTGGGGCCGTTATCAAGAACTACTATGCACAGCAGGTTGGAGT 28 GCAGCCCAGTGACATCTGCAACGTGTCAGTCATGCCATGCGTACGCAAGCAGGGAGAGGC 29 30 TCTCCGTGTGTTGTCAGTGTCTGTTAGAGGCTGGATACTCTCCAGTGCAGTGCTGATG 31 CAGAGTGGCGGCTGTGTGCAGCAGCGACCCCAAGAACACTGAGAGCTGGCAATTCAATG 32 GGCTTGCTTACTGTCAGCTTCCTTTTCCTGCAGGTGCAGTGACATACGGTCTGCAT 33 CAAGGCTCAAACATGTTGTGTATGTTGTGTGTGTTGCAATTGCAGGCCTTGCCCGTGA 34 TGTTGATCATGTGGTGACTACTGCTGAGGTTGGTAAGATATTCCTGGAGCGTGGCATCAA 35 GCTGAATGAGCTGCCAGAGAGCAACTTTGACAACCCCATTGGCGAGGGCACAGGTGGTGC 36 TCTGCTGTTTGGCACCACTGGAGGTGTCATGGAGGCAGCACTTCGCACAGTCTATGAAGT 37

1 2 GTATTTGTGGTTATCCTGCCATAGCACATGCCTTCTCCTGCTGTTGGCTTTATCAACCTG 3 TTGGTCTATGTGTCACTGTGTGCTGCAGGTTACCCAGAAGCCCATGGGTCGTTTGACT 4 TTGAGGAGGTGCGAGGCCTTGAAGGAATCAAGGAGGCAGAGATCACACTCAAGCCAGGAG 5 ACGACAGCCCATTCAAAGCCTTCGCAGGAGCTGATGGGCAGGGCATCACGCTCAAGATTG 6 CAGTAGCCAATGGGCTTGGCAATGCCAAGAAGCTCATCAAGAGCCTGTCAGAGGGCAAGG 7 CCAAGTATGATTTCATTGAGGTCATGGCATGCCCTGGTGGCTGCATTGGCGGAGGCGGTC 8 AGCCCGCAGTACTGACAAGCAGATCCTGCAGAAGCGCCAGCAGCTATGTACAACCTGG 9 ATGAGCGCAGTACCATCCGCCGCAGCCATGATAACCCATTCATCCAGGCGCTGTATGACA 10 11 CAGGTGGAATTCCAGAGGAGAAGTGAGGGACCGAGGCCGGAGTGGTGTTATTAGTGTAGA 12 GCTAGGCAGCAGGATCTGGCCGCATTTGGGTGCTGTTTTTGGTTTGGCATCAAAGATA 13 14 TATGGGCCAGGAAGAAGCCCGCATCAATGCATGTGAACTAGGTGGCTCCACATATGAACC 15 CTATCTGGATGTTTAAGGTACCTGAAACAATAGTGCATCGGCTCTGCATGGCTCAACAAC 16 17 GTGGTCAAATTGAATGTCTATGGCAGCTACGCCTGCAGTTCATAGTCTATGAAGGTTTCA 18 CCAGAGTCCATGTCCCTCATATTTTTTTTTTTTATATGCCTTGATTATGCCCCTTGAACCA 19 TGCTCAATGCACACAAGTTGGTCGCAGGACAGGCGGCATCGTACATCTCAATTTTCAGAA 20 CTTGTCAGTGCGGCATTGCCTTATTTGTACTCTTGCAGTCCTGTTTCACCCTTGCTACTG 21 CCTTGCATGCATCTTGTTTTTGCAAGCAACAGCTCATGCATTGCAATCGATCATCACGTA 22 CATCCGTGCCATATTCACATGGTTTTGACTTGCAAATCAACCACCAGGCAGTGGGTAAAT 23 TGCCAGGCTGGGTGCACTTTGGGCCATTTGGGCAGCCTCTTGTGGCGAGCTTTGCTGCA 24 GGGCCAAGCTGAGTGCATCAGACTCAGCAGGCTGCTGCACTGTAGAATGCTGAAAA 25 GGGCATTCAACTACATGTCATTATTAGGTTGACCTGAGACAGCCGTAAGAATATCATTGT 26 27 GTCCTTCCTCAATTACATGCCTTTCAAGAGACTTCAATATCTGTTGTCAGTGACTTGTTT 28 GTGTTTGCTTAATCCAGTGGTTCTC

		THE TON TON TON ON A
1	(2)	INFORMATION FOR SEQ. ID NO.4:
2	(i)	SEQUENCE CHARACTERISTICS:
3	(A)	LENGTH: 448 AMINO - #AMINO
4	(B)	TYPE: AMINO ACID
5	(C)	STRANDEDNESS: SINGLE
6	(D)	TOPOLOGY: LINEAR
7	(ii)	MOLECULE TYPE: PROTIEN PROTEIN
8	(xi)	SEQUENCE DESCRIPTION: SEQ. ID NO.4
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11		
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13	ELAKI	PKEQRKVMIAQIAPAVRVAIAETMGLNPGDVTVGQMVTGLRMLGFDYVFDTLFGAD
14	LTIME	EEGTELLHRLQDHLEQHPNKEEPLPMFTSCCPGWVAMVEKSNPELIPYLSSCKSPQ
15	MMLGA	AVIKNYFAAEAGAKPEDICNVSVMPCVRKQGEADREWFNTTGAGGANVDHVMTTAE
16	LGKI	FVERGIKLNDLQETPFDNPVGEGSGGVLFGTTGGVMEAALRTVYEVVTQKPLDRIV
17	FEDVE	RGLEGIKESTLHLTPGPTSPFKAFAGADGTGITLNIAVANGLGNAKKLIKQLAAGE
18	SKYDI	FIEVMACPGGCIGGGGQPRSADKQILQKRQAAMYDLDERAVIRRSHENPLIGALYE
19	KFLG	EPNGHKAHELLHTHYVAGGVPDEK
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2	(2)	INFORMATION FOR SEQ. ID NO.5:
3	(i)	SEQUENCE CHARACTERISTICS:
4	(A)	LENGTH: 497 AMINO - #ACIDS
5	(B)	TYPE: AMINO ACID
6	(C)	STRANDEDNESS: SINGLE
7	(D)	TOPOLOGY: LINEAR
8	(ii)	MOLECULE TYPE: PROTEIN
9	(xi)	SEQUENCE DESCRIPTION: SEQ. ID NO.5
10		
11		
12	MSALV	LKPCAAVSIRGSSCRARQVAPRAPLAASTVRVALATLEAPARRLGNVACAAAAPA
13	AEAPL	SHVQQALAELAKPKDDPTRKHVCVQVAPAVRVAIAETLGLAPGATTPKQLAEGLF
14	RLGFD	EVFDTLFGADLTIMEEGSELLHRLTEHLEAHPHSDEPLPMFTSCCPGWIAMLEKS
15	YPDLI	PYVSSCKSPQMMLAAMVKSYLAEKKGIAPKDMVMVSIMPCTRKQSEADRDWFCVD
16	ADPTL	RQLDHVITTVELGNIFKERGINLAELPEGEWDNPMGVGSGAGVLFGTTGGVMEAA
17	LRTAY	ELFTGTPLPRLSLSEVRGMDGIKETNITMVPAPGSKFEELLKHRAAARAEAAAHG
18	TPGPL	AWDGGAGFTSEDGRGGITLRVAVANGLGNAKKLITKMQAGEAKYDFVEIMACPAG
19	CVGGG	GQPRSTDKAITQKRQAALYNLDEKSTLRRSHENPSIRELYDTYLGEPLGHKAHEI
20	LHTHY	VAGGVEEKDEKK
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2	(2)	INFORMATION FOR SEQ. ID NO.6:
3	(i)	SEQUENCE CHARACTERISTICS:
4	(A)	LENGTH: 436 AMINO - #ACIDS
5	(B)	TYPE: AMINO ACID
6	(C)	STRANDEDNESS: SINGLE
7	(D)	TOPOLOGY: LINEAR
8	(ii)	MOLECULE TYPE: PROTEIN
9	(xi)	SEQUENCE DESCRIPTION: SEQ. ID NO.6
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12	MCCPV	VASRHAGRARHVAVRAAGPTSECDCPPTPQAKLPHWQQALDELAKPKESRRLMIA
13	QIASA	VRVAIAETIGLAPGDVTIGQLVTGLRMLGFDYVFDTLFGADLTIMEEGTELLHRL
14	QDHLE	QHPNKEEPLPMFTSCCPGWVAMVEKSNPELIPYLSSCKSPQMMLGAVIKNYYAQQ
15	VGVQP	SDICNVSVMPCVRKQGEADREWFNTTGAGLARDVDHVVTTAEVGKIFLERGIKLN
16	ELPES	$\tt NFDNPIGEGTGGALLFGTTGGVMEAALRTVYEVVTQKPMGRVDFEEVRGLEGIKE$
17	AEITL	KPGDDSPFKAFAGADGQGITLKIAVANGLGNAKKLIKSLSEGKAKYDFIEVMACP
18	GGCIG	GGGQPRSTDKQILQKRQQAMYNLDERSTIRRSHDNPFIQALYDKFLGAPNSHKAH
19	DLLHT	HYVAGGIPEEK
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    (i)
          SEQUENCE CHARACTERISTICS:
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          LENGTH: 2636 BASE - #PAIRS
    (A)
5
          TYPE: NUCLEIC ACID
    (B)
    (C)
          STRANDEDNESS: SINGLE
6
7
    (D)
          TOPOLOGY: LINEAR
8
    (ii) MOLECULE TYPE: MRNA
9
          SEQUENCE DESCRIPTION: SEQ. ID NO.7
    (xi)
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    TCCTGCAAGTCGCCCCAGATGATGCTGGGCGCAGTCATCAAGAACTACTTCGCTGCCGAG
24
    25
    {\tt GGCGAGGCTGACCGCGAGTGGTTCAACACCACAGGGGCTGGCGGCGCGAACGTGGACCAC}
26
    GTCATGACAACTGCAGAGCTGGGCAAGATCTTTGTGGAGCGCGGAATCAAGCTGAACGAC
27
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28
    ACCACTGGAGGCGTGATGGAGGCGCGCTGCGCACCGTGTACGAAGTGGTCACACAGAAG
29
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30
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31
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32
    CAGCTGCCTGCAGGCGAGAGCAAGTACGACTTCATCGAGGTCATGGCCTGCCCCGGCGGC
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    TGCATCGGCGGCGGCCAGCCGCGCAGCGGACAAGCAGATCCTGCAGAAGCGCCAG
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37
    TGCTGGCTGCGGCGAAGAACGGTGGGCATGGTGGTGGTGGTGGTGCTGCATGGTGGTGT
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CGCTCGTGCAGCATGGTGGGTTTTGCGGTTGTGATGTTGGGCATGCTGCACGGAGGTGTTT

1	GCATGGTTATGGATATGGTTCAGGTGCTGTGCTGCGTCGCATGCCATAAGCACCTTGTGA
2	$\verb CCCTGTGCGATGCATAAAAATAGATATTGCCATTTGGTTCCAGGCTGGTGGTGGCAGTGG \\$
3	$\tt CTGGTTAACAGGGGAGTGTGTGTTTTGTGTGTCTTCATTGTCGGTGTGTTCTTGCTGCAGGGGGGGG$
4	${\tt TGTATTGTAGTGTAATGGGTTATGCACGCCTGCATGCGCACGCGCTCCTCGTGCTGCGACGCGCTCCTCGTGCTGCGACGCGCTCCTCGTGCTGCGACGCGCTCCTCGTGCTGCGACGCGCTCCTCGTGCTGCGACGCGCTCCTCGTGCTGCGACGCGCTCCTCGTGCTGCGACGCGCTCCTCGTGCTGCGACGCGCTCCTCGTGCGACGCGCTCCTCGTGCGACGCGCTCCTCGTGCGACGCGCTCCTCGTGCGACGCGCTCCTCGTGCGACGCGCTCCTCGTGCGACGCGCTCCTCGTGCGACGCGCTCCTCGTGCGACGCGCTCCTCGTGCGACGCGCTCCTCGTGCGACGCGCGCTCCTCGTGCGACGCGCGCTCCTCGTGCGACGCGCGCTCCTGCGACGCGCGCTCCTGCGACGCGCGCTCCTGCGACGCGCGCTCCTCGTGCGACGCGCGCTCCTGCGACGCGCGCTCCTGCGACGCGCGCG$
5	${\tt AGTGCACAACGCACAGCGTGATACAGCTGCAGGACGTTTGCGGAAAAACACTTGTTACTGCAGGACGAAAAACACTTGTTACTGCAGGACGAAAAACACTTGTTACTGCAGGACGAAAAAACACTTGTTACTGCAGGACGAAAAAACACTTGTTACTGCAGGACGAAAAAACACTTGTTACTGCAGGACGAAAAAACACTTGTTACTGCAGGACGAAAAAACACTTGTTACTGCAGGACGAAAAAACACTTGTTACTGCAGGACGAAAAAACACTTGTTACTGCAGGACGAAAAAACACTTGTTACTGCAGGAAAAAACACTTGTTACTGCAGGACGAAAAAAACACTTGTTACTGCAGGACGAAAAAAACACTTGTTACTGCAGGACGAAAAAAACACTTGTTACTGCAGGACGAAAAAAACACTTGTTACTGCAGAAAAAACACTTGTTACTGCAGAAAAAAACACTTGTTACTGCAGAAAAAACACTTGTTACTGCAGAAAAAAAA$
6	$\tt GTGACGGCTGAAGCAGCGATGATGGAGAGAATGGATTCGCTGCTATCTCACAGGGCGTGGGGTGGGGGGGG$
7	$\tt CTGCTGCATCGCCATGGCATGTCCCTGTTGCACGCAATTGCCTGCGTAATTTTGATAGTGCTGCTGCATGCCTGCTAATTTTGATAGTGCTGCTGCTAATTTTGATAGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGC$
8	${\tt GCAGCACTGAGGCAGCTGCAAGGCCTTCTGCCAGCGGCTGTTTGTGTCCTATCTGTGTTTT}$
9	${\tt ACAGGCAGCTGCATTTGAAGGCAAGGGGGTTGGCCATCACTTTGATCACTCAC$
10	${\tt GAAGCAGGCTTCCATCCATGTATTGGTCAACGCACTGAAGTTCTTTTTTTT$
11	${\tt AGCAGTATTGTGCACACTACTTGCTATGGAGATGACAGCAGCATCAATCTCAAGCATGACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCA$
12	$\tt ATGAAAGCGTATGTTGTATCAGTGCCCCATTTTGCAGACTCTTAAGAGCTTTACCTTCTCCCCCATTTTGCAGACTCTTAAGAGCTTTACCTTCTCCCCCCCC$
13	$\tt AGGGGTTGCAGCAGGTGGTCAGCCAGTTGAGGGAGTGTGTGGCTGTTGTCTTGCCACGGGGGGGG$
14	CATGTGAGTATTGAAACCACCATCCTGAGCTAAGTGTTCAGGCATCTTACCCTCATACCC
15	$\tt CGCTACCCTGCTACTGGGAGTTTCGTTTCATTGTATTGGCAGCCGTTTACTAATTAGTAATAGTAATTAGTAG$
16	TGGCGCTTGAGCGAGGCATGTCTTGATATGTATGCCTTAGGAGAGTGTGAGCTCAACTCA
17	ATTCTCATAAGTGTAAGCCACACACTGGAAAAAAAAAAA

35

36

37

38

1

INFORMATION FOR SEQ. ID NO.8: 2 (2)SEQUENCE CHARACTERISTICS: 3 (i) LENGTH: 2399 BASE - #PAIRS 4 (A) TYPE: NUCLEIC ACID 5 (B) STRANDEDNESS: SINGLE 6 (C) TOPOLOGY: LINEAR 7 (D) (ii) MOLECULE TYPE: MRNA 8 SEQUENCE DESCRIPTION: SEQ. ID NO.7 9 (xi) 10 11 ATCTTACATGAACACAAAACACTCTCGCAGGCACTAGCCTCAAACCCTCGAAACCTTTT 12 13 GCACCACCTATTATTTCTAATATCGTAGACGCGACAAGATGTCGGCGCTCGTGCTGAAGC 14 CCTGCGCGGCCGTGTCTATTCGCGGCAGCTCCTGCAGGGCGCGGCAGGTCGCCCCCGCG 15 CTCCGCTCGCAGCCAGCACCGTGCGTGTAGCCCTTGCAACACTTGAGGCGCCCGCACGCC 16 GCCTAGGCAACGTCGCTTGCGCGGCTGCCGCACCCGCTGCGGAGGCGCCTTTGAGTCATG 17 TCCAGCAGGCGCTCGCCGAGCTTGCCAAGCCCAAGGACGACCCCACGCGCAAGCACGTCT 18 GCGTGCAGGTGGCTCCGGCCGTTCGTGTCGCTATTGCCGAGACCCTGGGCCTGGCCCGG 19 GCGCCACCCCCAAGCAGCTGGCCGAGGGCCTCCGCCCTCGGCTTTGACGAGGTGT 20 TTGACACGCTGTTTGGCGCCGACCTGACCATCATGGAGGAGGGCAGCGAGCTGCTGCACC 21 GCCTCACCGAGCACCTGGAGGCCCACCCGCACTCCGACGAGCCGCTGCCCATGTTCACCA 22 GCTGCTGCCCCGGCTGGATCGCTATGCTGGAGAAATCTTACCCGGACCTGATCCCCTACG 23 24 AAAAGAAGGGCATCGCGCCAAAGGACATGGTCATGGTGTCCATCATGCCCTGCACGCGCA 25 AGCAGTCGGAGGCTGACCGCGACTGGTTCTGTGTGGACGCCGACCCCACCCTGCGCCAGC 26 TGGACCACGTCATCACCACCGTGGAGCTGGGCAACATCTTCAAGGAGCGCGGCATCAACC 27 TGGCCGAGCTGCCCGAGGGCGAGTGGGACAATCCAATGGGCGTGGGCTCGGGCGCCGGCG 28 TGCTGTTCGGCACCACCGGCGGTGTCATGGAGGCGGCGCTGCGCACGGCCTATGAGCTGT 29 TCACGGGCACGCCGCTGCCGCCTGAGCCTGAGCGAGGTGCGCGGCATGGACGGCATCA 30 AGGAGACCAACATCACCATGGTGCCCGCGCCCGGGTCCAAGTTTGAGGAGCTGCTGAAGC 31 ACCGCGCGCGCGCGCGAGGCCGCGCGCACGCCACCCCGGGCCGCTGGCCTGGG 32 ACGGCGGCGCGGGCTTCACCAGCGAGGACGGCAGGGGGGCGCATCACACTGCGCGTGGCCG 33

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6	CCAGGGCACGTCGGAATGGCGCGTGCCCATCAACGCAAATTCTTGGCCTTCATCGCTTCT
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8	GTTGGAAGCTAAACATGTTTGGGAACAATTCATCTTACTAAAGCGTGTGGGGGTTGAGGA
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11	TTATACCCACCGTATGCGATTGACGTTGGTGTAGGCAACCAGGCGGTAGGAAGGCGGAGA
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13	TTGGCGCAGCCACGACAGGAGAGGTGTGCATCAGCCGCTTGTAAGCACGCAC
14	

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3
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         LENGTH: 2421 BASE - #PAIRS
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    (A)
          TYPE: NUCLEIC ACID
5
    (B)
          STRANDEDNESS: SINGLE
6
    (C)
          TOPOLOGY: LINEAR
7
    (D)
    (ii) MOLECULE TYPE: MRNA
8
          SEQUENCE DESCRIPTION: SEQ. ID NO.9
9
    (xi)
10
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14
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21
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26
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28
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29
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33
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34
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3	$\tt CGCCTGCAGTTCATAGTCTATGAAGGTTTCACCAGAGTCCATGTCCCTCATATTTTTTGT$
4	TTTATATGCCTTGATTATGCCCCTTGAACCATGCTCAATGCACACAAGTTGGTCGCAGGA
5	${\tt CAGGCGGCATCGTACATCTCAATTTTCAGAACTTGTCAGTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGCTGCGGCATTGCCTTATTTGTAGAGAGCTGCGGCATTGCCTTATTTGTAGAGAGCTGCGGCATTGCCTTATTTGTAGAGAGCTGCGGCATTGCCTTATTTGTAGAGAGCTGCGGCATTGCCTTATTTGTAGAGAGCTGCGCATTGCCTTATTTGTAGAGCAGAGCTGCAGAGCAGAGCAGAGCAGAGCAGAGCAGAGCAGAGCAGAGCAGAGCAGAGAGCAGAGAGAGCAG$
6	$\tt CTCTTGCAGTCCTGTTTCACCCTTGCTACTGCCTTGCATGCA$
7	CAGCTCATGCATTGCAATCGATCATCACGTACATCCGTGCCATATTCACATGGTTTTGAC
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9	${\tt GGGCAGCCTCTTGTGGCGAGCTTTGCTGCAGGGCCAAGCTGAGTGCATCAGACTCAGCPAGCTGAGCTG$
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11	TGACCTGAGACAGCCGTAAGAATATCATTGTGTGCTGAACTTAGTCGTCAATGTCATGCC
12	$\tt ATGATGTGTTTTCAGGGATGGATAAGGGAGGTCCTTCCTCAATTACATGCCTTTCAAGAGGAGGTCCTTCCT$
13	GACTTCAATATCTGTTGTCAGTGACTTGTTTTGTGTTTGCTTAATCCAGTGGTTCTCAAAA
14	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA